

September 30, 2015

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of August, 2015.

Total amount awarded for the month of August was \$4,106,845

Fiscal Year To Date Total: \$15,971,991

Award Title	Amount	Investigators	PI Dept.	Sponsors
3D Nanostructure Design and Fabrication	\$542,662	Principal Investigator (PI): Fiddy, Michael	Physics and Optical Science	Sponsor: Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)
A 3D human neural cell culture system for studying neuron-microglia interaction in Alzheimer's disease	\$150,000	Principal Investigator (PI): Cho, Hansang	Mechanical Engineering and Engineering Science	Sponsor: Massachusetts General Hospital Prime Sponsor: Cure Alzheimer's Fund
Abrasion Testing of Roller Compacted Concrete Specimens	\$2,595	Principal Investigator (PI): Cavalline, Tara	Engineering Technology and Construction Management	Sponsor: Andale Construction
AFRL University Engineering Design Challenge Program	\$20,000	Principal Investigator (PI): Browne, Aidan	Engineering Technology and Construction Management	Sponsor: Technology Service Corporation Prime Sponsor: Department of Defense (DOD) Development of the Air Force (DAF) Air Force Office of Scientific Research (AFOSR)
Assessing the Fidelity of National Institute of Justice's (NIJ) Demonstration Field Experiment (DFE): Changing Attitudes and Motivation in Parolees (CHAMPS).	\$134,170	Principal Investigator (PI): Listwan, Shelley Co-PI: Hartman, Jennifer	Criminal Justice and Criminology	Sponsor: Manpower Demonstration Research Corporation (MDRC) Prime Sponsor: National Institute of Corrections
Building Healthy Lifestyles from All Directions	\$114,392	Principal Investigator (PI): Racine, Elizabeth Co-PI: Saunders, William	Public Health Sciences	Sponsor: Cabarrus Partnership for Children

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Carolinas Energy Planning for the Future	\$105,000	Principal Investigator (PI): Shankar, Ramesh Co-PIs: Chowdhury, Badrul; Young, David; Enslin, Johan; Guyer, Regina	Energy Production and Infrastructure Center	Sponsor: North Carolina Department of Environment and Natural Resources (NCDENR) Division of Energy, Mineral and Land Prime Sponsor: Resources Department of Energy (DOE)
Charlotte Teachers Institute's Exploding Canons: ¡NUEVOlution!	\$2,000	Principal Investigator (PI): Gartlan, Scott	Deans Office College of Liberal Arts and Sciences	Sponsor: North Carolina Humanities Council
Collaborative Research: A Dynamical Systems Approach to Shepherding and Sorting Microparticles in Fluids	\$250,000	Principal Investigator (PI): Kelly, Scott Co-PI: Smith, Stuart	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Collaborative Research: A Novel Framework for Robust Online Periodic Optimal Control, with Application to Energy-Harvesting Flight and Intermittent Treatment of Chronic Disease	\$113,826	Principal Investigator (PI): Vermillion, Christopher	Mechanical Engineering and Engineering Science	Sponsor: National Science Foundation (NSF)
Competently Ready to Work	\$12,498	Principal Investigator (PI): Martin, Florence Co-PI: Shore, Rebecca	Educational Leadership	Sponsor: University of North Carolina General Administration (UNC GA)
Construction Monitoring Work Plan and Technical Evaluation AEP - Gavin Residuals Waste Landfill Expansion - North Berm Construction	\$46,800	Principal Investigator (PI): Khire, Milind Co-PI: Hardin, Christopher	Civil and Environmental Engineering	Sponsor: Beaver Excavating Prime Sponsor: Company American Electric Power Company, Inc.
Corrosion Testing of 304L SS & 316L SS	\$9,000	Principal Investigator (PI): Oza, Shubhashini Co-PIs: Keen, Olya; Guyer, Regina	Civil and Environmental Engineering	Sponsor: Geosyntec Consultants, Inc.

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Cortical Measures of Postural Control in Uninjured Controls, Copers, and Those with Chronic Ankle Instability	\$2,500	Principal Investigator (PI): Turner, Tricia Co-PIs: Fenwick, Abbey; Burcal, Christopher	Kinesiology	Sponsor: National Athletic Trainers Association (NATA) Research and Education Foundation
Crossing Borders: Making Connections	\$325,730	Principal Investigator (PI): Vincent, Sharon Co-PIs: Yang, Avonne; Toth, Cynthia; Baldwin, Defloris; Portwood, Sharon	School of Nursing	Sponsor: Health Resources and Services Administration (HRSA)
Development of Next Generation Stabilization Agents for Cell-based Therapeutics	\$278,237	Principal Investigator (PI): Elliott, Gloria	Mechanical Engineering and Engineering Science	Sponsor: National Institute of Health (NIH) National Institute of General Medical Sciences (NIGMS)
ECOHAB: Integrating Cell and Toxin Cycles of <i>Karlodinium veneficum</i> with Key Environmental Regulators: In Situ Studies of Predictive Determinants for Bloom Toxicity	\$69,205	Principal Investigator (PI): Parrow, Matthew	Biological Sciences	Sponsor: National Oceanic and Atmospheric Administration (NOAA) National Ocean Service (NOS) National Centers for Coastal Ocean Science (NCCOS) Center for Sponsored Coastal Ocean Research (CSOR)
Enhancing Data Collection and Management for Social Discovery Operations	\$35,479	Principal Investigator (PI): Shehab, Mohamed	Software and Information Systems	Sponsor: Social Discovery Corp
Generalized Semiparametric Varying Coefficients Models For Longitudinal Data	\$119,999	Principal Investigator (PI): Sun, Yanqing	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)
Geotechnical and Dewatering Monitoring Program for Appalachian Power Amos Fly Ash Basin Closure Project	\$40,000	Principal Investigator (PI): Hardin, Christopher Co-PI: Khire, Milind	Energy Production and Infrastructure Center	Sponsor: American Electric Power Company, Inc.

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Graduate Assistantship	\$25,137	Principal Investigator (PI): Cecchi, Valentina	Electrical and Computer Engineering	Sponsor: Quanta Technology LLC
Graduate Assistantship at Council for Children's Rights	\$14,937	Principal Investigator (PI): Kilmer, Ryan Co-PI: Cook, James	Psychology	Sponsor: Council for Children's Rights (CFCR)
Levine Museum of the New South, Nuevolution Dialogue Evaluation	\$16,500	Principal Investigator (PI): Smith, Heather Co-PI: Harden, Susan	Geography and Earth Sciences	Sponsor: Levine Museum of the New South
Light Control Spacer 45-32800-36	\$2,998	Principal Investigator (PI): Owen, Joseph Co-PI: Davies, Matthew	Mechanical Engineering and Engineering Science	Sponsor: Magic Leap Inc.
Luminous Properties of Resilient Flooring - White Papers: Hospital application & Retail A	\$15,000	Principal Investigator (PI): Brentrup, Dale	School of Architecture	Sponsor: Armstrong World Industries, Inc.
Materials Characterization Laboratory Services - Master Agreement with BSN Medical, Inc.	\$396	Principal Investigator (PI): Weaver, Katherine	Mechanical Engineering and Engineering Science	Sponsor: BSN Medical
Materials Characterization Laboratory Services - Master Agreement with Gantrade Corporation	\$430	Principal Investigator (PI): Weaver, Katherine	Mechanical Engineering and Engineering Science	Sponsor: Gantrade Corporation
Materials Characterization Laboratory Services - Master Agreement with Momentive UV Coatings (Shanghai) Co., Ltd.	\$330	Principal Investigator (PI): Weaver, Katherine	Mechanical Engineering and Engineering Science	Sponsor: Momentive UV Coatings Shanghai Co., Ltd.

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MCHD Smoke Free Evaluation	\$30,000	Principal Investigator (PI): Issel, L	Public Health Sciences	Sponsor: Mecklenburg County Health Department
Mining Patterns of Substance Use by Young Adults with Social Media Data	\$161,467	Principal Investigator (PI): Ge, Yong Co-PI: Kazemi, Donna	Computer Science	Sponsor: National Institutes of Health (NIH)
Motivated Teaching and Learning in K-12 Classrooms: Regional English Language Symposium (RELS)	\$7,792	Principal Investigator (PI): Salas, Spencer	Middle, Secondary and K-12 Education	Sponsor: Oman Ministry of Higher Education
NC-LSAMP-Phase V	\$86,000	Principal Investigator (PI): Brown, Banita	Dean's Office College of Liberal Arts & Sciences	Sponsor: North Carolina Agricultural and Technical State University (NCAT) Prime Sponsor: National Science Foundation (NSF)
OUTSpoken Speakers Series	\$1,550	Principal Investigator (PI): Rhodes, Theresa	Counseling Center	Sponsor: Alliance for Full Acceptance (AFFA)
REU Site: Nanoscale Science Undergraduate Research Experience (NanoSURE) at UNC Charlotte	\$271,476	Principal Investigator (PI): Schmedake, Thomas Co-PI: Brown, Banita	Chemistry	Sponsor: National Science Foundation (NSF)
Role of Bacteria in Colitis-Associated Colon Cancer	\$27,047	Principal Investigator (PI): Fodor, Anthony	Bioinformatics & Genomics	Sponsor: University of Florida Prime Sponsor: National Institutes of Health (NIH) National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDKD)
SCH: EXP: Collaborative Research: Preserving Genetic Privacy in Genetic Screening	\$242,964	Principal Investigator (PI): Shi, Xinghua	Bioinformatics and Genomics	Sponsor: National Science Foundation (NSF)

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SI2-SSE: TrajAnalytics: A Cloud-based Visual Analytics Software to Advance Transportation Studies Using Emerging Urban Trajectory Data	\$200,950	Principal Investigator (PI): Yang, Jing	Computer Science	Sponsor: National Science Foundation (NSF)
SRA FLEX Literacy	\$195,363	Principal Investigator (PI): Flynn, Lindsay Co-PI: Beach, Kristen	Special Education and Child Development	Sponsor: McGraw-Hill Education
Study the Cost Effectiveness of an Active Parking Lot Street Sweeping Program to Control Particulate, PAH, Nutrient and Trace Metal Loadings to Stormwater Runoff.	\$47,602	Principal Investigator (PI): Allan, Craig	Geography and Earth Sciences	Sponsor: Charlotte-Mecklenburg County Storm Water Services
Theseus: A Mobile Security Management Tool for Mitigating Attacks in Mobile Networks	\$383,415	Principal Investigator (PI): Souvenir, Jamie	Computer Science	Sponsor: Department of Homeland Security (DHS)
US Embassy Tokyo Federal Assistance Award Summer 2015	\$1,398	Principal Investigator (PI): Salas, Spencer	Middle, Secondary and K-12 Education	Sponsor: US Department of State (DOS)